

Product group: Lactose  
 Brand name: SuperTab® 11 SD (NZ)  
 Product code: 747822  
 Product description: Lactose monohydrate  
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Manufacturing site: Fonterra Ltd., Kaponga, New Zealand  
 Product name: SuperTab® 11SD  
 Conforms to USP - NF, Ph.Eur., JP, Ch.P. Lactose monohydrate monograph, current at time of manufacture  
 Product description: A white or almost white, crystalline powder freely soluble in water, practically insoluble in ethanol  
 Residual solvents  
 (CPMP/ICH/283/95): No class 1,2,3 solvents are used during production

### **Physical-Chemical data:**

Identification:  
 Appearance of solution (Ph.Eur.)  
 Clarity and Colour of Solution  
 Residue on ignition/Sulphated ash  
 Water (KF)  
 Loss on drying  
 Acidity  
 Specific Optical Rotation (on anhydrous basis)  
 Absorbance between 210-220 nm (1%, 1 cm)  
 Absorbance between 270-300 nm (1%, 1 cm)  
 Absorbance at 400 nm (10%, 1 cm)  
 Heavy metals  
 Arsenic  
 Assay by HPLC  
 Identify material by HPLC  
 Related substances by HPLC

### **Specification**

Complies with Pharmacopoeia when tested  
 Clear and not more coloured than ref. BY 7  
 Clear and colourless or nearly colourless  
 max. 0.10 %  
 4.5 - 5.5 %  
 max. 1.0 %  
 max. 0.4 ml 0.1 N NaOH  
 +54.4° to +55.9°  
 max. 0.25  
 max. 0.07  
 max. 0.04  
 max. 5 ppm  
 max. 2 ppm  
 98.0 – 102.0 %  
 pass  
 pass

### **Microbiological data:**

Total aerobic microbial count  
 Yeasts and moulds  
 E. coli  
 Salmonella

### **Specification**

max. 100 cfu/g  
 max. 10 cfu/g  
 neg. in 10 g  
 neg. in 100 g

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**Particle size** (Sonic sifter)

% < 75 µm  
% <150 µm  
% <250 µm

**Specification**

max. 20  
40 – 65  
min. 90

**Particle size distribution** (Laser diffraction, dry)

D10  
D50  
D90

**Specification**

reported value  
reported value  
reported value

**Storage:**

Keep in original, unopened packing and away from strongly odorous materials.  
Store at room temperature (normal warehouse conditions), allowing temporary excursions.

This document substitutes all previous versions issued for the brand names mentioned above.  
We trust this information, which is made up to the best of our knowledge, will be helpful to you.

**Name** : Dr. Bastiaan Dickhoff  
**Job title** : Director Innovation & Technical Solutions

**Signature** : 

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